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Wireless Makes Waves All Over

is arraying the way that old

occuer's lest worth), my strandfather used to talk about listering to "the wireless" - by which he meant listering to the radio Since that time, the word "wireless" has always myoke in me a feeling of nestalgus for the bar, old radios of my father

and pracellabler's term - with cream-colored plastic betters. a radio-based data transmissions technology that could allow users to access their computer networks and their arrest It was a lattle poein, to say the least, given that we had

just been through an era when accessing television signals wirelessly (through off-air televasion broadcasts) had given through popular, low-cost satultite requirers. Similarly, the wireless conversation went from being an occurringly (through the era of 'Walkie talkes' and CB Rodon' to an important part of everyday life (with the advert of today's mobile 'phone culture)

And at home, the tethered telephone has given way to the out the most murdance of household choras And swee amounts those of us who have decaded that holding a hundy powerful wireless transmitten/receiver (ac a mobile phone) up against our skull jor't the safest way to proceed through life - and opted instead to use a handset for that task - many have opted fromcally to use a wireless headest that can send

a sirred from the mobile phone to the headest (typically So we have now arrived at a place where "wires are had" and no offert should started in making same they are wires are being eliminated through the true of 802 11-based (or WiFi) wireless networks - through which we can send all manner of data around the house, including valeo, audio,

omail and Web browsing files. The other sight, for exemple, I watched a digitally-recorded epode of one of my favorne TV shows (The West Wesg) from the comfort of my bad by using my wirelessly-connected notebook computer.

OK, that's a bit of a ecoloid scenario - but you get the idea. Wireless is homer than it's ever been and, in this insue of Performance PC, we have samed to provide you with a good look at wireless products and technologies that are making a

difference to other lives. We hope you erroy st. four chapters of my book - Incide the Buildle . he assered that we will continue our monthly eligence inside the "don com" world of 1999-2000 in the next issue. P



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Nordel 2U Entry P4 By Maxer Cook

a December, we reviewed Norsel's high-end that Xour with a het swap SCSI RAID. This month, we have their entry-level 2U server on the table, to take a leek at some of its strengths, weaknesses, and practical reasons.

This enter is definitionly entry-level, with a single 2-6 GER to CPU, a rethrey be no Rold limit of 2 GB (center State and with 250 MB), a single 80 GB IDD hard drive, and a low opener 2000 steppill like what is markers lacked in muscle, at makes up for in proce—as \$12.00 for the standard countingstoners, vary age is indecensational correct that nextly on go in a standard use, there are few situations where one hard drive, without continuous, would be sufficient. Most pre-clausers will probably some to add at least a second other to a ReAD 1 certifipment, which is how one is said subject to the unit shaped.

creder to preter year data.

The moderhood is in little \$865WDI-E, with an on-board Precesse UE-R-AID controller and dual 100 MM effective. That used the beat state of the critishing that one pains over a destine metal-to-load without this observage, one on speak to to many how which city beats one sprange, one on speak as to one may how the other houses of the speak of the speak

the first tase, working as a camped collection space would be east to reposite from a good tast of fixed problem were that although the rest comes with het woop drive boys, the comes the comes to good the rest comes to specify the reservoir of the comes to the comes to specify the reservoir of the comes to the comes to the comes of the comes the ware, and if you durit need to work pulsed perfect openers, this is not enough of a problem to justify the extra 1500 mean sughtenanced tastign with my to this server, it concerned usage when office this layer, is if a personal and the fifth bear or cord as set transport existing or the con-

and the data being stered in not immuni-certical, or for tasks that require a reliable network connection, but one nother dependent on complex configurations not breakness system performance. This machine would perform beneathfully as a standation with or intensing means proxy, or an departmennal file server (with RAID-1 and beckups corollally in place, the momentum of the proxy.)

A number of Network-Americal Stiringe devices have come to number recently, they're small. Inst, and relatively cheap One near that they are resteatedly fedicing in, though in expandibility. For not much more of an investment, Noolar SU server provides similar features to those smaller mili-enerated devices, while illnessing you to expand as



necessary. Those 80 GB hard drives are centrugly cheap, by next year drives early (wice as large will be stands combined with hot-awap Serial ATA, this server has soon now. •

Matre Cook, Systems Administrator Neo Code Sefrense - reespeccedesofrware con Mainellineocodesofrware com





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Microsoft Wireless Optical Desktop Pro 2.0



With they're sonly considered "neety" is the rath of congruent networks, first we request yet conquire concepts on them the keybend is the single post often used compare perspatial electron. A Belowy Dengetical device of over the was that definitely device. It was a smally selling for \$500 or less at any compare size. But if you write for a loving like 1 day, you questly come to realise a good keybood can make all of the difference when it comms to certain. That where the new Mexicolf Writel's a common to certain. That where the new Mexicolf Writel's realist and the size of the contract of registeries makes any what first a good devices or department of registeries measure makes first a good devices.

defined Things Up limitation was straighforward. The wracless beautions join a shall USE consection and the great begins as a second of the consection and the great begins of the second of the seco

Informal tests showed that the keyboard and mouse has an effective range of about 10ft or so, though I found the response of both keyboard and mease were greatly improved when the base station didn't have to work through the balk of a heavy wooden desk, and was placed more or less within line of size of both weyboard and more than the properties of the station of the second that the second that

The mouse and keyboard each took a pair of AA butteres (included), which Microsoft says should last for about 6 resents before replacing (check) Microsoft has obviously encountried on reducing the sension of power required to the Informatic formation in 1994-05-228 | sensitive committees these devices, as the lower-mouse is not as flishly as other optical mice, and the keyboard does not use any beight LEDs to indicate when you are in shift mode — the latter being a real disadvantage.

sociations "Swatten approach so crymenically-designed, with the man part of the keyboard "spill" uso two sections, each societic occurating the "brone keys" for each hand. Buch section is also registed, designed so mainth the neutral position spot hand some to be to. Below the keyboard is a numberout, a feature stronduced with its type of syboyear the Linearingly standard with many non-exponence keyboard. The own-Ill mean is to make the unresult of states on owe finers and hand with

the Namal keybounds your other blan them or you do netpensately I love them and find I may next intercryptor, where I won them, and must bestelying I know sower by them Bird die Natural skyle must fory and Mercinel efficie the exect same model using the remedial rectangular keybourd layers. Despite the correct, this keybourd is designed to fit arm a strateful maker-dook keybourd bening, no star with a problem. Unithe their pervision keybourds, this venues as set in a

Unfake their purvous keybaneda, that version is set in a black caring, as used tennilaterat black keys. Soree people think is foolks cool, others think is looks things—if you filts black computer components you! If like the keyboard (shall can't help think that the trustificent keys beg for some

MIRELESS OPTICAL BESKIOP PRO 2

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Bluetooth to the rescue

If I you have ever tried to exchange safemation form one electronic device to eaether, you know how frustrature in can be getting the right califes, and software working together It almost never works on the first triel. The information age is clearly more about communication their burdware Cell phones, pagers, personal digital assistants. laptops, digital comerns and MP3 players, all help people comwith each other

Up outfl recently, of you wanted to transfer auformation between your PDA and your lastno, you had to have the proper sexual cables to connect the two machines together, or sometimes if you were lacky and had only not on both machines, you could use that. However there was never really a true standard for consequences tion, making the devices reconnectible. For example, you could synchronize your lighten with your paper and your laster with your PDA. But you could not synchronize your PDA with your nater. Even more difficult was trying to find the right cable that would

That was when Bhactooth was created to put an end to all this confusion and frustration. Bluetooth is a strenderd that allows digital devices to communicate with one another paint radio frequencies. Blactooth will allow any device with a Bhadcoth radio chip to commerciate with another anywhere in the world. Bluctooth is also a means to connect YOUR ENTER OF SCHOOL TO YOUR COMPUTER WISHOUT EVER BAYING

to plug anything in the back of the computer again. Imagine being able to take your pactures with your digital carners and upleading them to any laptop without your MP3 player with use a few clicks and then haterness to war resic with wireless beadehores

Basically Bisetooth is a spears to do eway with wires. The days of having multiple cables remains everywhere

off Wireless Cutical Deskton Pro 2.0 Continued from page 8

modder out there to get some light source undemouth at) Arguably the more important factor is how it feels to one's The keys respond to a fight much, but still have a solid feel to them - no mashing of keys needed here In addition to the regular keys this new keyboard saids 17 additional buttons above the function keys along the tee. The

When two devices attempt to communicate with each other, they have to establish two main things, the mores of communication and the Irresurge or protocol of the communication. The means of communication can be As with every new technology, there are always problems to deal with Rigoteeth technology works with radio surveys

The frequency assumed to Bipoteeth is 2.4 GHZ. This is the same frequency that is used by most conflicts telephones, and other wareless devices. When a device is not connected in any notwork, it is on standby mode. While on Standby mode. it wakes up just enough to lested to any nearby traffic. If it detects no traffic, it goes back to standby Then repeats the same there every 1.28 seconds. When a drawn trick to taking for your permission. Once the connection is established, the transfer is as easy in 1-2-3. You can connect

Right now the future of Bluetooth is wide open. Whether or not the technology will live up to its expectations in servone's guess. A very popular application right new is centered on cell means, remediarly as a means of worders access to the interior. A cell phone equipped with Blacksoth tochno logy can link a laptop computer to the internet withcent using any wires. Another possibility is a three-in-one cell device, avoiding any phone charges. On the road, the phone will function as a standard cell phone, and once you arrive more template regitiple telephone morehers amonore. We have developed the tools to help us communicus; the next step is to belp our devices to communicate with one another For Blustooth to be successful, it will need to be affordable as well as emergy efficient on the devices. For more information on Blackweis drawers wisit arous blackweit com B

socioling a Play/Prane button, Step, Increase/Decrease next stem on your playing. A thankful address to this collection of buttoes is a Mate button, for when you need to kell the sound quickly. After this are the internet set of brations. Masi, Web/Horns (which definits to your hyposegs the final 3 love. Calculator, Los Off and a recessed Slaves key. While these keys are a cood addition, from I can say that I simpet never comember to use these keys, and usually rad out for adding shortous or chaking score to do the same



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"These Games Still Rock" **Buying Arcade Classics from StarROMs**

There is a growing community of people who enjoy Using an agrelator like MAME (short for IMulti Ascade

board) you could not lenally play these sames. That means But now there is an alternative. StarROMs in consupction

that you can pay for and download onto your computer, and can be played through an emulsior like MAME The oldest names, this the black-and-whote Aran Football or Assn Baschall cost 8 credits assece, while the most expensive titles are either relatively recent or all-time Rissics, like Asteroids, Tempest, Missale Command or

tarROMs Co-Founder Frank Leibly KSR: How did you go about miking the idea behind

markant market opportunity. We were both familiar with

of users. Plus the idea of offering the original versions of The basiness concert stuff was very similar to I-Times. but for old video games. We're giving our customers a leval

solution, where for a few bucks each, they can download the chissic games they remember. The idea had a lot of appeal to as is a means of preserving and protecting an important Yet it seemed like convenient owners were more in generating new povenies from their leaner assets. So we

secret state a hit of time developing the materials and emulators and the potential market opportungly, before we started making cold calls. We had no prior mismorphies to

approached Atan They were already fooking at the ROM overly samplistic "constators spencyubed" way of thinking most part, will only resort to paracy as a last elemetive

By providing a legal opportunity to download ROMs, their buserst and most level face. When you think about it.

Furthermore, the demographic for our audience is much broader then what you see for most modern video games The largest segment of our customers are in their 30's

Continue on page 16

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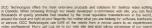


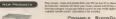












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KSR: What percentage of profits does Atari see fl ach sale?

Fig. 1 can't disclose the specific terms of our liberne with tam, but a large percentage of each safe goes to mysilone. Which makes some because they own the rights to these are part of the first if a great deal for that to be tomate they have to marketing or development expense associated well what where down, Jacob from the up front legal work to error was becausing approximant, all they need no do so each the checks

because garceners, all they need to do a cost the checks or earl on them. Trails printly shad to beat! KSSR: Have you board singthing from the original paraeentars and order.¹⁹ FLC We have built a marbor of interesting and volubable contacts from some folds who fall must this category. In one case, we were actually able to put one of the original arm developers or no such will comorous who was willing

pay top define for his expense. I diseight that was retty next.

KSRL What are your most popular titles?

FLA shattereds, according to orionnation I've seets, as the next popular according grow of titune, so as you would specify it's at the top of our his of adhers. Cantipode, Minable records.

soot popular recode game of all times, so as you would open, if is it has beginned for the lot dillest. Compage, Manilla command, and Tempest are night up these too. The appeal of own could be in the control of the control of the control of the Kalle White-set of treat both have you had from the accelerate command. Fig. 5 may be given the control of the control of the control of the First Surpey but, those games will not be. The will work great on a PC too, without popularies good special coasine's if you don't have them. So m you trught expect, the reaction from the secole gaming community his bone extraceity positive. The amount of "Its small" has been unserwhat overwhelming. We make an effect so end and resport to ell fredinack in white when hippy shoet all the positive fredinacks, it's rotately been somewhat overwhichings!

Activing!

KSR: Is there any release achedule st place for as-yetzorlessed Atari parce ROMs?

FL: We thin to similtaintly expend our offerms of Atan

and one Atm games over the course of the year, although we have no definitive technic in this point. An attempt, our resources one finite and we've put causomer aspect in the top of our 1st., 1st year It have quite a but of experience with letterns businesses and we have no desire to bedd a locate of course. For transitive, It these we've go the influence to part product in this poest to significantly such up our product offering, and a counterer service track exceed that is pretty forting.

leterest businesses and we have no desure to beside a house of cases. Fortnessingly, if their levels got the influsionstrum in place at this poest to significantly such up our product offering, and a contineer service track second that is prity impressive, so I think this year well the sible to comp up quite.

KSR: When can be see port to see from SterROMs as the factor.

FL: This year should being a oughtfrant consumer.

Fig. 11th year measurement a significant expansion of titles offered, both by increasing our offering of closurarcade games, and by expanding into comole filles, starting out with the closure Alam comole games.

8

Kelth Schwagell-Roberts or currently co-awtivity a book

called "How to Build Four Dorn Arcade Bust" for Scarrerow Press, and is now the provid owner of Englishmete capies of Euthersone, Gravitze, Klux, Major Howe, Space Duel and Tempesi



Wireless in So Many Ways

PCs are come wareless From wireless keyboards and mice to WiFi connections for high-spood wireless. network and Internet access, wareless in

In this issue of PerformancePC, we

that connect directly to the average desktoo PC - but also at a number of warrless devices that can help you brine the comparing expenence out into the field (or wherever you happen to be standing at the time). For that reason, we look at everything from "picture phones" that photos directly from your mobile abone to new wireless abone offennes that les you eliminate your home phone entirely

CityFide The first of these wireless offenness in Microcell's CityFido syrgice, Microcell

market in October in the first "borre and mobile" service in the country. Viescouver consumers can switch their lead line phone to a mobile service with Microcell - and carry their existing lending CS40 per month. The services provides unismitted local californ and Microcoll offers a series of competitive long distance plans to compete with Teles, the

primary lendline camer in the recice Mixmodil CEO and President André Trembley and that the development of the service represents a growing trendparticularly amongst young couples and single professionals - to shandon their landfuses and go completely mobile "A Yanker Green report released earlier this year memory, that minutes using wireless than traditional lendline phones," be observed, "Studies also show that consumers between the age of 18 and 34 are the most eager "swatchers" to warden coaches their lifestyles. And it is no surrose, given that now

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Telus Mobility Picture Messaging Late last year, To'us Mobility entered the camera phone

expected to surpuss 50% by 2005 Telus Mobility's first appropried camera phone is the LG 5450, which

lets users send and receive images with sound and test directly to other carrors phone and a 300k peopl duratel carriers with both resolution colour screen, self timer and the shiftly to stone up to 30

the first to allow users to show their pectures anstantly - and even seach

votce or text messages to them - by

phones. The correspy and that ever-

own secure online photo aftern on Tellou

Mobility's Web rate or send them to

earlier photo fissishing retailers for most-

already hugely popular in Europe and

Asia, camera phones are set to take off

report by industry magazine RCR

Wireless News, so which now research

showed global sales of camera phones but 25 milion in the first builf of this

year, already surposing the sales of dig-

stal carneras. While camera phones will

worldwide in 2003, penetration is

Telus suggests that as they are

pertures. Tellus clasms that utilitie some conspeting products the LG 5450 is full integrated and needs no accessories to The LG \$450 costs \$379 99 for users signing

Customers new a standard change of 25 cents for in Telus Mohility's next procession 1X digital

warders communications offer more benefits than working. save pectures to their own ordine photo albums on TELLIS Mobility's Web site Telus says storage in free for 60 days, after which users can choose to purchase permanent storage. They can organize their pictures into slide shows. and albums, customere with littles and descriptions, add links

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DC Compaced-via James applications was numerous counts prophesions, feequal to be two companies reached with proprietating, command to be two companies reached with proprietating command and command passabilities. Through a control over the cours may leave (control over the course for control over the course may leave (control over the course for deventionalizing of more trade for the course for the deventionalizing of more trade to the control over like cole, has to physically dual with the mechanics to control companies and post control over stateful for the best like down board to an event for the control over down board to an event for the control over down board to an event for the control over down board to an event for the control of down board to an event for the control of and and why or at their cover sensate.

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Continued from page 10 thing. The only ones I end up using consistently are the video play buttons (supersally when weighing somethow in fellscreen mode) and Calculator, because latters a custom betton

The keyboard ashers in two other features which key which spens two spens of the keyboard, replaced the armshiv obsolete Insert key I love this feature mearcerable times I have but the old lesset when I didn't

mean to, then proceeding to overwrite subsequent text. I this is a wood addition. My personal pet peave is the F-Lock

button, which embles you to "shiff" the function keys, so to indicate which mode I om in, I usually end up latting a back to the occased function key to do what I wasted it to do Agon KA45V /038P\$3533MK THEMS PETTED DESIGN 250348 P\$2200 000400

remember to my you now it in Performances Hardware Surveys - Value Decistop < 1K S

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MS Windows XP Hone

for right-handed users - besides to shape there is no forward or back baston built into the molt side of the mouse, which is step is the right direction for ergonomic keyboards

not where a southeave would expect it.

One of the interesting features of this new mouse was the scrollwheel with built-is "tilt-wheel" technology. The tilt wheel function allows you to scroll sideways. I found myself

The Messe The mouse is Microsoft's most recent addition to facile copical litterp, and while it is made primarily of plastic, the two AA britishes give if the right amount of "heft" - not too

heavy, and not too light. It handled well and was easily as procise as a traditional mouse Though Microsoft classes that the means is organismical designed to fit in either hand, the design shows a preference

underwhelmed by this feature. While it was nice to be oble to can across rucent pictures of Mars on my Web however, or up across columns on a spreadsheet, i didn't end up usons this Sestare much. Unlike meny other mice, this scrollwheel

Continue on page 24 manushan | NEHSBYSK | Flory 200 Advance? 22

are Surveys - Notebook 1-2K S

Continued from page 23 does not have click-stors - material it samply visites smoothly

had click-stops, I'd go for the latter 24 Outcome C. School 2006 J. PHISH SHOW I repeated

saids to the tactife feel of things when scrolling and allows for more meant that you can soroll more mickly with less

resistance. On the whole if I had to pick between a messe

with this tall-wheel and one that only scrolled vertically but

combination, Microsoft's offering has a lot to recommend it What keeps rac from giving this a glowing andonement ore

function on the lowboard, and the oddfoil tilt-wheel scrollwheel without click-stops on the means - on an otherwise

excellent pair of computer pempherals. A step in the right

direction, but there's still more that one be done. It

A Good Combo, With Room for Improvement

On the whole I found the Microsoft Windess Consul-

a comfortable and erromonate wireless knyboard and mouse

5140 (pricing and availability in Canada for this unit was not

lunder, exerts-intrend phose. Along with its ability to

outehly connect users at the posts of a button. Nokia says the 5140 phone also includes a number of unions features designed for the "scrive-minded consumer" such as a daptal company,

The GSM/GPRS/EDGE Notice 5140 phone will be

Continue on page 26 waspelmenosponete per 1 PFSF EX EX EXT 1 Nover 2011 Pelmeno/C 25

available in a GSM 900/1800/1900 MHz version primarily

Noise says the 5140 is the world's first GSM mush to talk

remember to pay not street in Performer

Continued from page 18

to flavourist wises, outrest their nicturus to their own printers

or send them via e-mail to more photo frushing retailers for

orietanz

At a major press event in New York late last year, Nokia. serveiled a brace of new phones - some of which brang

Motorola MIKE-style "push to talk" features so that you can assauth access a pre-defined group of people (as you would

with a wolkie talkie in "broadcast" mode) without making a

ANNE - Floragen Florage 2-3K Switters | member to serve use our reference to

Wirefess in So Many W Continued from page 25

side-mounted key

for the Europe/Asia market and in a GSM 850/1900/1800 While the Nokia 5140 phone is the first Nokia GSM MHz version permerly for the America market Both handed to Sciture push-to-talk capability, the company save versions are expected to be available during the 2nd quarter

it marks the first step as push-to-talk becomes on

increasingly common function During 2004. Noku will The company says that with just the pesh of a better,

introduce a full range of push-to-talk capable GSM phones.

Nolon 5140 phone owners can connect to friends and including Symbian CS based smartphones From 2005

family by using the much-total feature for quick young

newards gash, to talk will become available for all Nokia communications, or to access the built in VGA current to GPRS/WCDMA phones 'This "walking-talking" style push-to-

over IP (VoIP) solution trans the exesting GPRS and FDGW

talk feature of the Noksa 5140 phone is a half-daplex voice

communicate visually. According to Nokia, the post-to-talk feature can be used to quackly connect the user to one person,

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coraress displays the direction both eraphically and

numerically. After dark, a built-in flashlight helps to suide

Additional functionality of interest to the fitness minded

recommended training principles

splinks. The Active Headset features one button to prower

and end calls and another that can be used to acrovate the

Nolos 5140 phone also exports downloadable polyphonic

ring tones, custom walkpapers and Java applications to

prais-to-nik expatility of the Noisa 5140 phone.

Meanwhile, multimedia messaging constitity allows for

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